

**Abstract**

The invention relates to a method for vulcanizing caoutchouc or latex by adding a mixture M which contains a component a) from a1) 20 to 96% by weight of sulfur, a2) 4 to 80% by weight of a complexing agent, and optionally other additives b) to caoutchouc or latex and then vulcanizing the mixture. The inventive method is characterized in that the average particle size of the primary particles of component a) ranges from 0.05 to 20 $\mu$ m.